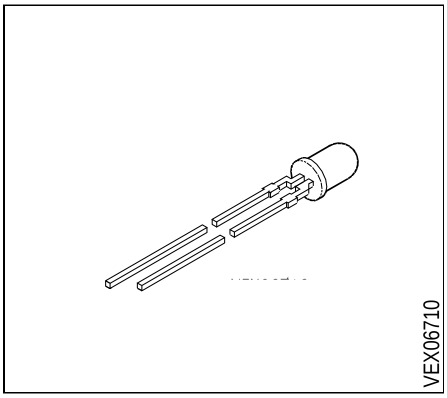
SIEMENS

LC 3 mm (T1) LED, Diffused
Low Current LED

LS 3369, LY 3369, LG 3369



Besondere Merkmale

- eingefärbtes, diffuses Gehäuse
- als optischer Indikator einsetzbar
- hohe Lichtstärke bei kleinen Strömen (typ. 2 mA)
- Lötspieße mit Aufsetzebene
- gegurtet lieferbar
- Störimpulsfest nach DIN 40839

Features

- colored, diffused package
- for use as optical indicator
- high luminous intensity at low currents (typ. 2 mA)
- solder leads with stand-off
- available taped on reel
- load dump resistant acc. to DIN 40839

Typ **Type**	**Emissionsfarbe** **Color of** **Emission**	**Gehäusefarbe** **Color of** **Package**	**Lichtstärke** **Luminous** **Intensity** I_F **= 2 mA** I_V **(mcd)**	**Bestellnummer** **Ordering Code**
LS 3369-EH LS 3369-G LS 3369-H LS 3369-GK	super-red	red diffused	0.63 … 5.0 1.60 … 3.2 2.50 … 5.0 1.60 … 12.5	Q62703-Q1748 Q62703-Q2068 Q62703-Q3820 Q62703-Q3821
LY 3369-EH LY 3369-F LY 3369-G LY 3369-H LY 3369-FJ	yellow	yellow diffused	0.63 … 5.0 1.00 … 2.0 1.60 … 3.2 2.50 … 5.0 1.00 … 8.0	Q62703-Q1749 Q62703-Q2030 Q62703-Q2029 Q62703-Q1906 Q62703-Q3822
LG 3369-EH LG 3369-F LG 3369-G LG 3369-FJ	green	green diffused	0.63 … 5.0 1.00 … 2.0 1.60 … 3.2 1.00 … 8.0	Q62703-Q1750 Q62703-Q2069 Q62703-Q2070 Q62703-Q3823

Streuung der Lichterstärke in einer Verpackungseinheit $I_{V\,max} / I_{V\,min} \leq 2.0$.
Luminous intensity ratio in one packaging unit $I_{V\,max} / I_{V\,min} \leq 2.0$.

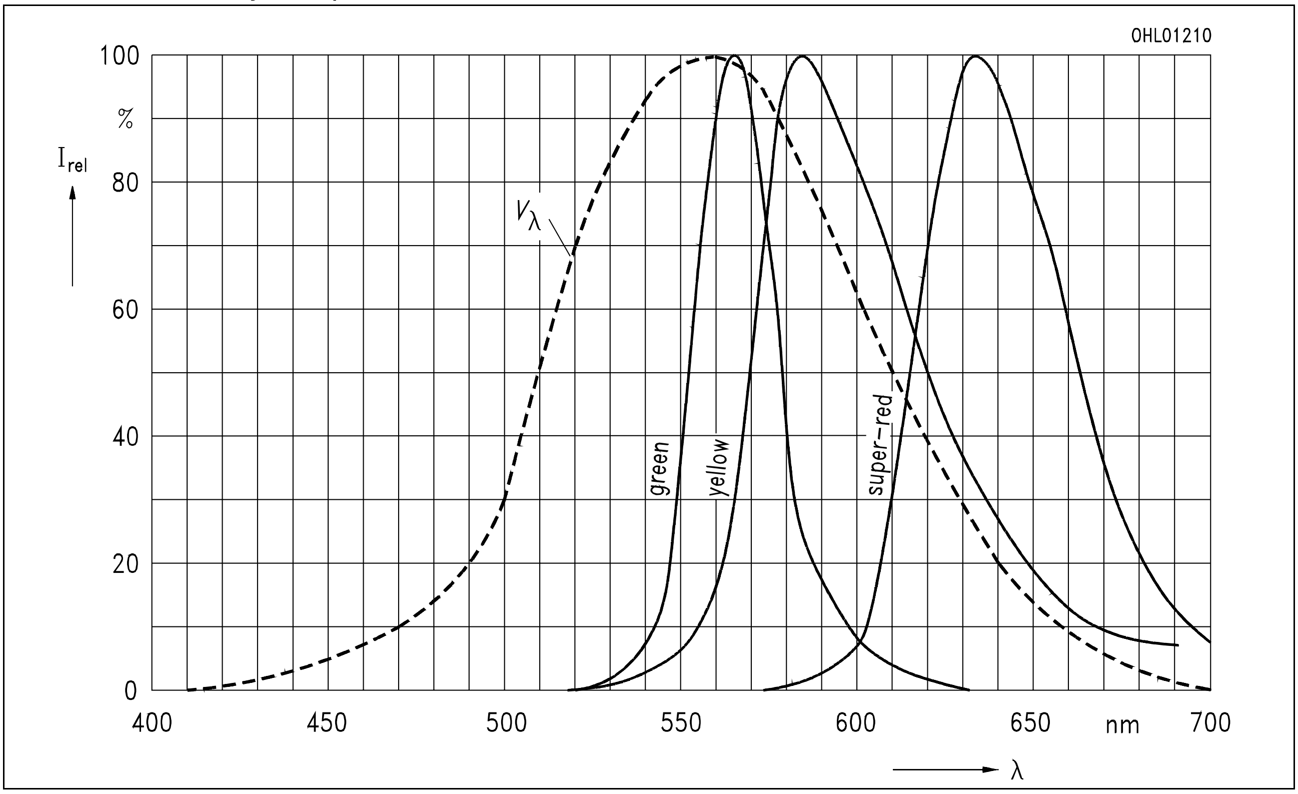
Grenzwerte
Maximum Ratings

Bezeichnung **Parameter**	**Symbol** **Symbol**	**Werte** **Values**	**Einheit** **Unit**
Betriebstemperatur Operating temperature range	T_{op}	– 55 … + 100	°C
Lagertemperatur Storage temperature range	T_{stg}	– 55 … + 100	°C
Sperrschichttemperatur Junction temperature	T_j	+ 100	°C
Durchlaßstrom Forward current	I_F	7.5	mA
Stoßstrom Surge current $t \leq 10$ µs, D = 0.005	I_{FM}	0.15	A
Sperrspannung Reverse voltage	V_R	5	V
Verlustleistung Power dissipation $T_A \leq 25$ °C	P_{tot}	20	mW
Wärmewiderstand Thermal resistance Sperrschicht / Luft Junction / air	$R_{th\ JA}$	500	K/W

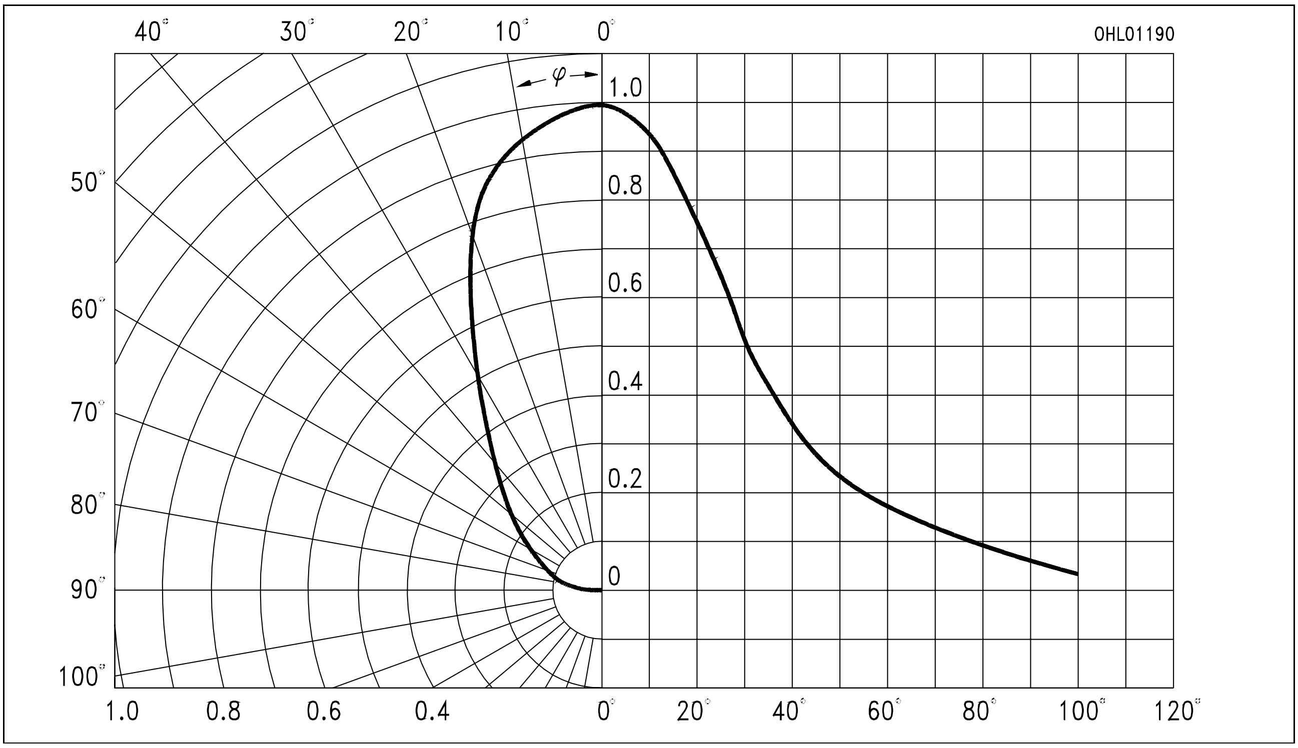
Kennwerte (T_A = 25 °C)
Characteristics

Bezeichnung Parameter	Symbol Symbol	Werte Values			Einheit Unit
		LS	**LY**	**LG**	
Wellenlänge des emittierten Lichtes(typ.) Wavelength at peak emission(typ.) I_F = 7.5 mA	λ_{peak}	635	586	565	nm
Dominantwellenlänge(typ.) Dominant wavelength(typ.) I_F = 7.5 mA	λ_{dom}	628	590	570	nm
Spektrale Bandbreite bei 50 % $I_{rel\ max}$(typ.) Spectral bandwidth at 50 % $I_{rel\ max}$(typ.) I_F = 7.5 mA	$\Delta\lambda$	45	45	25	nm
Abstrahlwinkel bei 50 % I_V (Vollwinkel) Viewing angle at 50 % I_V	2φ	60	60	60	Grad deg.
Durchlaßspannung(typ.) Forward voltage(max.) I_F = 2 mA	V_F V_F	1.8 2.6	2.0 2.7	1.9 2.6	V V
Sperrstrom(typ.) Reverse current(max.) V_R = 5 V	I_R I_R	0.01 10	0.01 10	0.01 10	µA µA
Kapazität(typ.) Capacitance V_R = 0 V, f = 1 MHz	C_0	3	3	15	pF
Schaltzeiten: Switching times: I_V from 10 % to 90 %(typ.) I_V from 90 % to 10 %(typ.) I_F = 100 mA, t_P = 10 µs, R_L = 50 Ω	 t_r t_f	 200 150	 200 150	 450 200	 ns ns

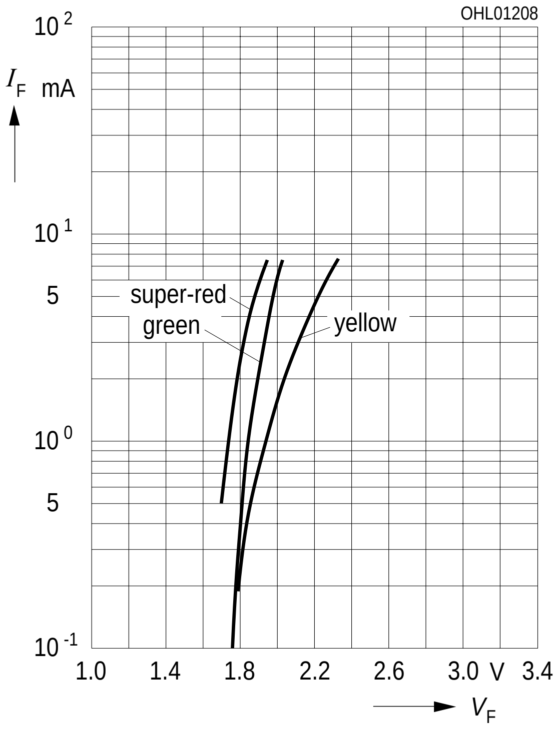
Relative spektrale Emission $I_{rel} = f(\lambda)$, T_A = 25 °C, I_F = 7.5 mA
Relative spectral emission
V (λ) = spektrale Augenempfindlichkeit
Standard eye response curve



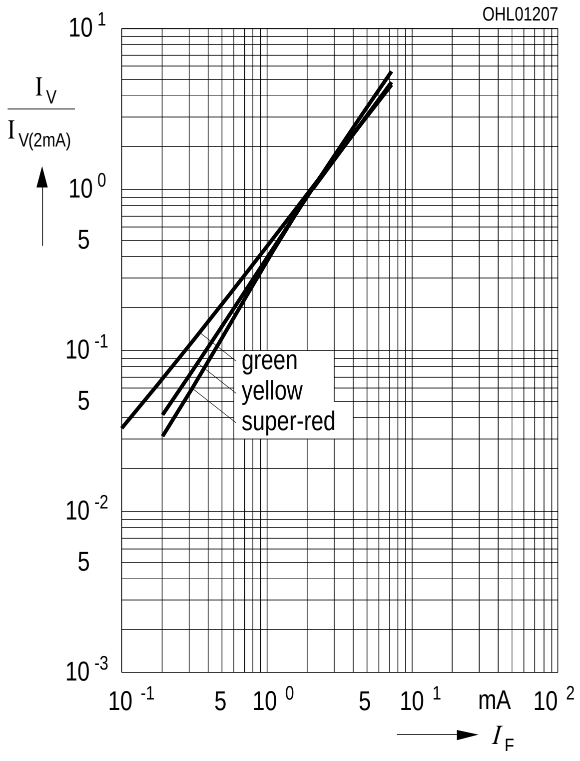
Abstrahlcharakteristik $I_{rel} = f(\varphi)$
Radiation characteristic



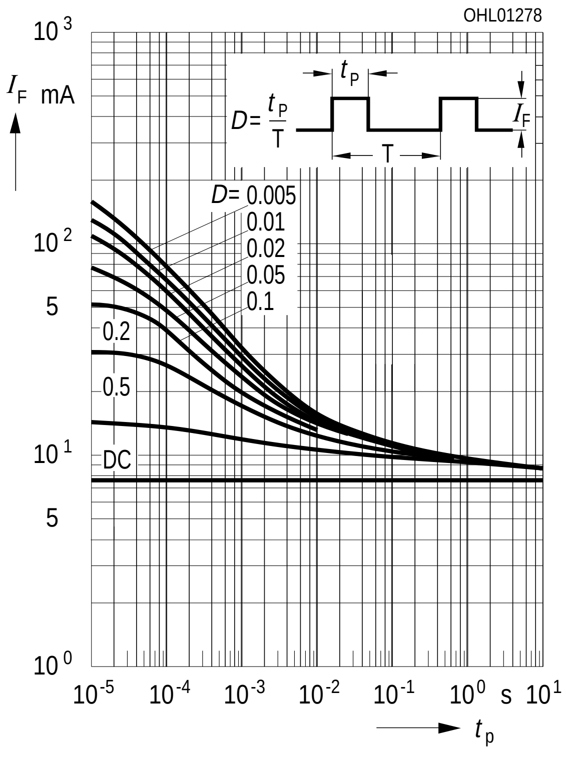
Durchlaßstrom $I_F = f(V_F)$
Forward current
T_A = 25 °C



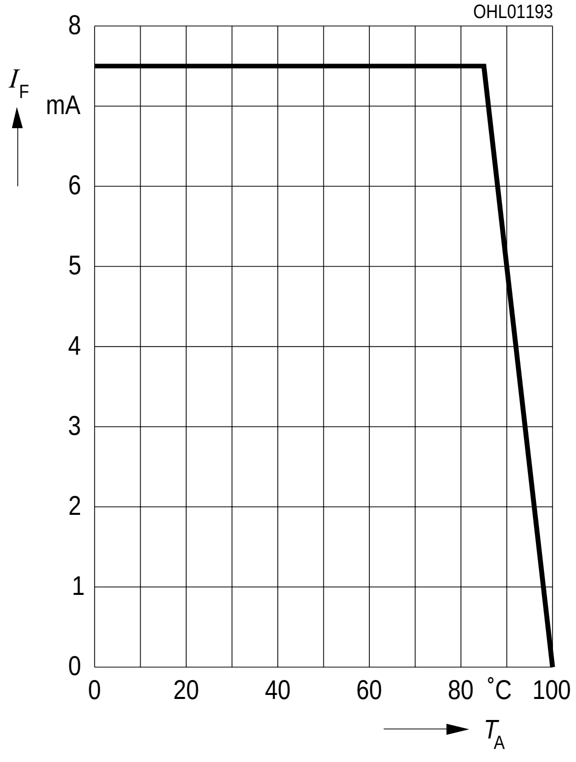
Relative Lichtstärke $I_V/I_{V(2\,mA)} = f(I_F)$
Relative luminous intensity
T_A = 25 °C



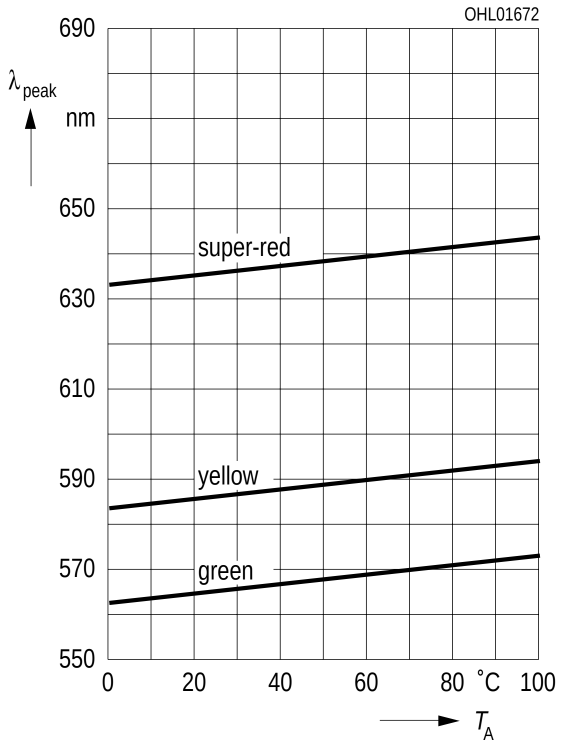
Zulässige Impulsbelastbarkeit $I_F = f(t_P)$
Permissible pulse handling capability
Duty cycle D = parameter, T_A = 25 °C



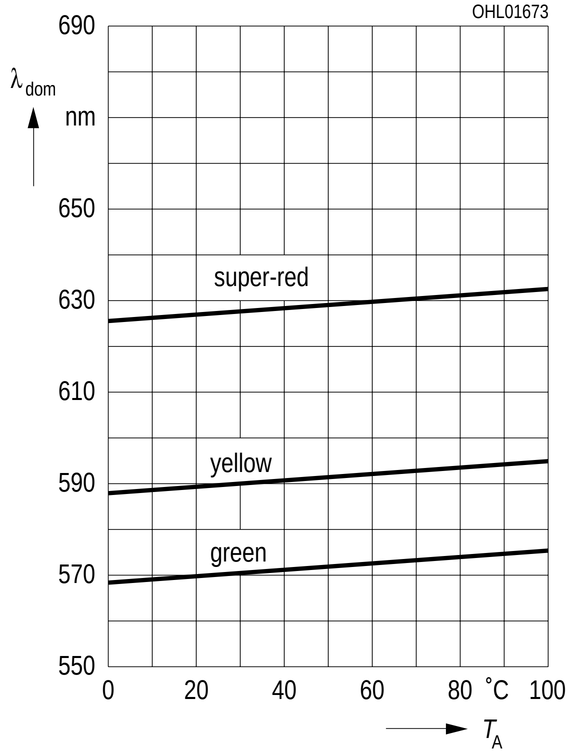
Maximal zulässiger Durchlaßstrom
Max. permissible forward current
$I_F = f(T_A)$



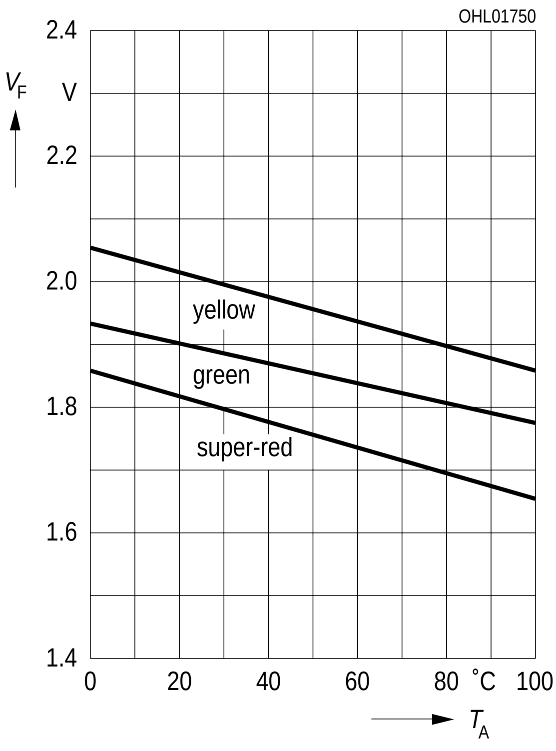
Wellenlänge der Strahlung $\lambda_{peak} = f\,(T_A)$
Wavelength at peak emission
I_F = 7.5 mA



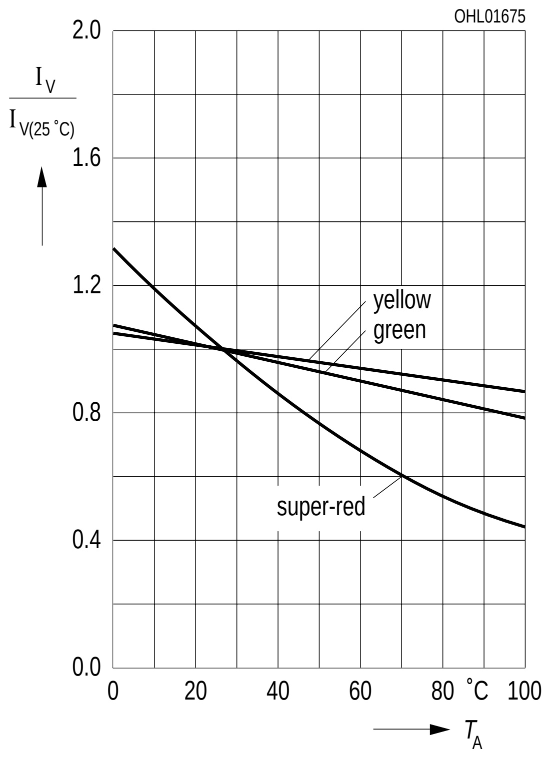
Dominantwellenlänge $\lambda_{dom} = f\,(T_A)$
Dominant wavelength
I_F = 7.5 mA



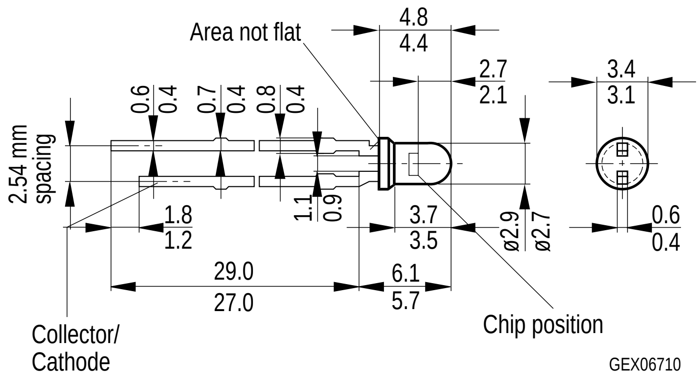
Durchlaßspannung $V_F = f\,(T_A)$
Forward voltage
I_F = 2 mA



Relative Lichtstärke $I_V/I_{V(25\,°C)} = f\,(T_A)$
Relative luminous intensity
I_F = 2 mA



Maßzeichnung (Maße in mm, wenn nicht anders angegeben)
Package Outlines (Dimensions in mm, unless otherwise specified)



Kathodenkennzeichnung: Kürzerer Lötspieß
Cathode mark: Short solder lead